

Cadherin-1/CD324 Protein, Human (Biotinylated, HEK293, Fc)

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|--------------------------|---|
| Cat. No.: | HY-P77518 |
| Synonyms: | Cadherin-1; CDH1; CAM 120/80; E-cadherin; CD324 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P12830-1 (Q23-I707) |
| Gene ID: | 999 |
| Molecular Weight: | Approximately 87.1 kDa. |

PROPERTIES

AA Sequence

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QEPEPCHPGF   DAESYTFFTPV   RRHLERGRVL   GRVNFEDCTG
RQRTAYFSLD   TRFKVGTDGV   ITVKRPLRFH   NPQIHFLVYA
WDSTYRKFFST   KVTLNTVGHH   HRPPPHQASV   SGIQAELLTF
PNSSPGLRRQ   KRDWVIPPIS   CPENEKGPFP   KNLVQIKSNK
DKEGKVFYSI   TGQGADTPPV   GVFI IERETG   WLKVTEPLDR
ER IATYTLFS   HAVSSNGNAV   EDPMEILITV   TDQNDNKPEF
TQEVFKGSVM   EGALPGTSVM   EVTATDADDD   VNTYNAAIAY
TILSQDPELP   DKNMFTINRN   TGVISVVTTG   LDRESFPTYT
LVVQAADLQG   EGLSTTATAV   ITVTDTDNDP   PIFNPTTYKG
QVPENEANVV   ITTLKVTDAD   APNTPAWEAV   YTILNDDGGQ
FVVTTNPVNN   DGI LKTAKGL   DFEAKQQYIL   HVAVTNVVPF
EVSLTTSTAT   VTVDVLDVNE   APIFVPPEKR   VEVSDFGVG
QEITSYTAQE   PDTFMEQKIT   YRIWRDTANW   LEINPDTGAI
STRAELDRED   FEHVKNSTYT   ALI IATDNGS   PVATGTGTL L
LILSDVNDNA   PIPEPRTIFF   CERNPKPQVI   NIIDADLPPN
TSPFTAELTH   GASANWTIQY   NDPTQESIIL   KPKMALEVG D
YKINLKLMDN   QNKDQVTTLE   VSVCDCEGAA   GVC RKAQPVE
AGLQI
  
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Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

Cadherin-1 (CD324) is a calcium-dependent cell adhesion protein known for its preference to interact homophilically with itself in adjacent cells, thereby contributing to the sorting of heterogeneous cell types. CDH1, a member of the cadherin family, plays a crucial role in regulating cell-cell adhesions, influencing the mobility and proliferation of epithelial cells. Notably, CDH1 exhibits a potent role as an invasive suppressor and serves as a ligand for integrin alpha-E/beta-7E, impacting non-amyloidogenic degradation of Abeta precursors. Moreover, CDH1 demonstrates a robust inhibitory effect on the production of APP C99 and C83, further emphasizing its multifaceted involvement in cellular processes and its potential implications in pathological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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